

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

HOWDEN TYSWAL B-2 (S/N MK46/WRV255-16536/824)

Component

Refrigeration Compressor

USPI ALT-68 SC (160 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Moor

All component wear rates are normal.

Contamination

There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable.

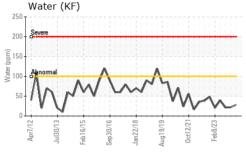
Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

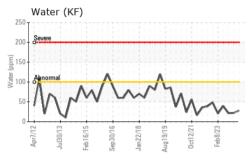
2012 Ju2013 Feb2015 Sep2016 Jeb2019 0c2021 Feb2023						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0006169	USP0004075	USP0000390
Sample Date		Client Info		19 Mar 2024	05 Dec 2023	26 Aug 2023
Machine Age	hrs	Client Info		0	11203	10017
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	0	0	<1
Chromium	ppm	ASTM D5185m	>2	0	0	0
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>3	0	0	0
Lead	ppm	ASTM D5185m	>2	0	0	0
Copper	ppm	ASTM D5185m	>8	0	0	0
Tin	ppm	ASTM D5185m	>4	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m		<1	0	0
Phosphorus	ppm	ASTM D5185m		0	0	0
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m	50	102	0	102
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	1	2	1
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	0	1	<1
Water	%	ASTM D6304	>0.01	0.003	0.002	0.002
ppm Water	ppm	ASTM D6304	>100	28	22	21.4
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	1657	1310	936
Particles >6µm		ASTM D7647	>2500	310	417	171
Particles >14µm		ASTM D7647	>320	12	44	31
Particles >21µm		ASTM D7647	>80	2	11	8
Particles >38µm		ASTM D7647	>20	0	1	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	18/15/11	18/16/13	17/15/12
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.013	0.014	0.015

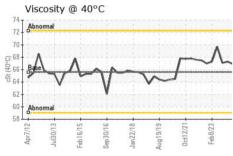


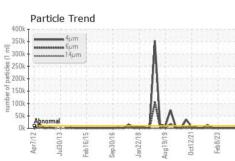
OIL ANALYSIS REPORT



Par 400k T	ticle 1	rend						
350k	******* 6j.	ım ım µm						
% 250k -					1			
200k					1			
5 150k					1			
250k				ander:	A			
50k +	ormal		001400		Λ	Λ	222,00	
Apr7/12	Jul30/13	Feb16/15	Sep30/16	Jan22/18	Aug19/19	Oct12/21	Feb8/23	





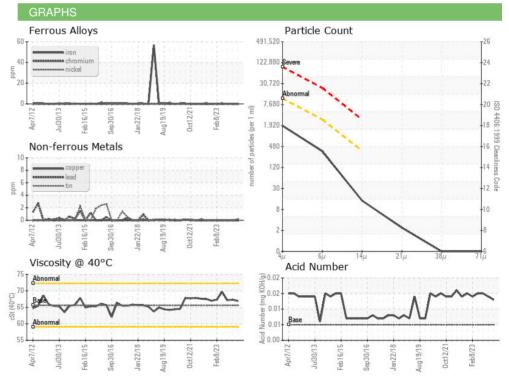


VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.01	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
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FLUID PROPER	HES	method			history1	history2
Visc @ 40°C	cSt	ASTM D445	65.6	66.9	67.3	67.1

SAMPLE IMAGES	method			history2
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Laboratory Sample No.

Lab Number : 06123702

: USP0006169 Unique Number: 10937853

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 20 Mar 2024

Tested Diagnosed

: 25 Mar 2024

: 25 Mar 2024 - Jonathan Hester

TYSON - WALDRON- USP

WALDRON, AR US

F: (479)637-5602

Contact: DANNY HOUSTON danny.houston@tyson.com

T: (479)637-2121

Test Package : IND 2 Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)